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# NOTICE OF ALLOWANCE AND FEE(S) DUE

27572

7590

06/29/2009

HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828 BLOOMFIELD HILLS, MI 48303 EXAMINER

RAMPURIA, SHARAD K

ART UNIT PAPER NUMBER

2617

DATE MAILED: 06/29/2009

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/698,800      | 10/31/2003  | Eric W. Fleischman   | 7784-000656         | 2460             |

TITLE OF INVENTION: GEO-CAST SYSTEMS AND METHODS

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1510        | \$300               | \$0                  | \$1810           | 09/29/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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or <u>Fax</u> (571)-273-2885

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| CURRENT CORRESPOND   | F  | Fee(s) ]<br>papers.  | Fransmittal. This<br>Each additional p   | certific<br>paper,  | cate cannot be used fo  | domestic mailings of the<br>r any other accompanying<br>t or formal drawing, must   |   |   |
| 27572  | 7590 06/29   | /2009  |  |   |   |   | of Mailing or Transn  | niccion   |
| HARNESS, DI<br>P.O. BOX 828<br>BLOOMFIELD  | E, P.L.C.  | I<br>S<br>a<br>t   | hereby<br>States F<br>address<br>ransmi  | y certify that this<br>Postal Service wit<br>ed to the Mail S<br>tted to the USPTC                                  | Fee(s) h suffi Stop IS O (571)  | Transmittal is being cient postage for first SSUE FEE address a 273-2885, on the da | deposited with the United class mail in an envelope above, or being facsimile te indicated below.                         |   |
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|  |  |  | L  |   |   |   |   | (Date)  |
| APPLICATION NO.  | FILING DATE  |  | FIRST NAMED INVENT   | OR  | A   | ATTOR   | NEY DOCKET NO.  | CONFIRMATION NO.  |
| 10/698,800   | 10/31/2003   | •  | Eric W. Fleischman   | 1   | •   | 7   | 784-000656  | 2460  |
| TTLE OF INVENTION  | : GEO-CAST SYSTEM  | S AND METHODS  |  |   |   |   |   |   |
| APPLN. TYPE  | SMALL ENTITY   | ISSUE FEE DUE  | PUBLICATION FEE DU   | JE PR   | REV. PAID ISSUE I   | FEE   | TOTAL FEE(S) DUE  | DATE DUE  |
| nonprovisional   | NO   | \$1510   | \$300  |   | \$0   |   | \$1810  | 09/29/2009  |
| EXAM   | IINER  | ART UNIT   | CLASS-SUBCLASS   |   |   |   |   |   |
| RAMPURIA,  | SHARAD K   | 2617   | 455-456100   |   |   |   |   |   |
| . Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. |  |  | (1) the names of up<br>or agents OR, altern<br>(2) the name of a si<br>registered attorney of                              | f a single firm (having as a member a rney or agent) and the names of up to tent attorneys or agents. If no name is |   |   |   |   |
| PLEASE NOTE: Unl   | less an assignee is identi<br>h in 37 CFR 3.11. Comp   | A TO BE PRINTED ON The field below, no assignee eletion of this form is NO   | data will appear on th<br>T a substitute for filing<br>(B) RESIDENCE: (CI  | e paten<br>an assi<br>ITY an  | ignment. d STATE OR CO  | UNTR  | RY)   | cument has been filed for   |
| lease check the appropr  | iate assignee category or  | categories (will not be pr   | rinted on the patent):   | Inc   | dividual 🖵 Corp   | oratio  | n or other private grou   | up entity Government  |
| a. The following fee(s):  Issue Fee Publication Fee (N Advance Order - 4   | 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  A check is enclosed.  Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). |  |  |   |   |   |   |   |
| _ ~ .  | <b>tus</b> (from status indicated<br>is SMALL ENTITY statu   | · · · · · · · · · · · · · · · · · · ·  | ☐ b. Applicant is no l   | 1   | alaimina CMALI  | ENTE  | ITY status Cos 27 CE  | D 1 27(~)(2)  |
| NOTE: The Issue Fee an   | d Publication Fee (if requ   |  | d from anyone other tha  | _   | -   |   |   | e assignee or other party in  |
| Authorized Signature   |  |  |  |   | Date  |   |   |   |
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| APPLICATION NO.            | FILING DATE           | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |
|----------------------------|-----------------------|----------------------|-------------------------|------------------|
| 10/698,800 10/31/2003      |                       | Eric W. Fleischman   | 7784-000656             | 2460             |
| 27572 75                   | 27572 7590 06/29/2009 |                      |                         | INER             |
| HARNESS, DIC               | KEY & PIERCE, P.I     | RAMPURIA, SHARAD K   |                         |                  |
| P.O. BOX 828               |                       | ART UNIT             | PAPER NUMBER            |                  |
| BLOOMFIELD HILLS, MI 48303 |                       |                      | 2617                    |                  |
|                            |                       |                      | DATE MAILED: 06/29/2009 |                  |

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 321 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 321 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

|  | Application No.   | Applicant(s)  |
|--|---|---|
|  | 10/698.800  | FLEISCHMAN, ERIC W.   |
| Notice of Allowability   | Examiner  | Art Unit  |
|  |   |   |
|  | SHARAD RAMPURIA   | 2617  |
| The MAILING DATE of this communication appeared all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this ap<br>or other appropriate communication<br>IGHTS. This application is subject to | plication. If not included  n will be mailed in due course. <b>THIS</b> |
| 1. This communication is responsive to <u>01/26/2009</u> .   |   |   |
| 2. X The allowed claim(s) is/are <u>1-4, 7, 9-13, 16-23 (renumbere</u>   | d as 1-18 respectively) .   |   |
| <ol> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> </ol>   | nder 35 U.S.C. § 119(a)-(d) or (f).   |   |
| <ol> <li>Certified copies of the priority documents have</li> </ol>  | e been received.  |   |
| 2.   Certified copies of the priority documents have   | been received in Application No   |   |
| 3. Copies of the certified copies of the priority do   | cuments have been received in this  | national stage application from the                                     |
| International Bureau (PCT Rule 17.2(a)).   |   |   |
| * Certified copies not received:   |   |   |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  |   | complying with the requirements   |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give  |   |   |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus  | st be submitted.  |   |
| (a) ☐ including changes required by the Notice of Draftspers   |   | .948) attached  |
| 1) ☐ hereto or 2) ☐ to Paper No./Mail Date   | •   | 5 (5) amonos  |
| (b) ☐ including changes required by the attached Examiner's  |   | Office action of  |
| Paper No./Mail Date  | 3 Amendment / Comment of in the C   | Since action of   |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t   |   |   |
| 6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT  |   |   |
|  |   |   |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892)  | 5. ☐ Notice of Informal F   | Patent Application  |
| 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)   | 6. ☐ Interview Summary  |   |
| _ , ,  | Paper No./Mail Da   | tè .  |
| 3. Information Disclosure Statements (PTO/SB/08),  | 7. 🛛 Examiner's Amendr  | ment/Comment  |
| Paper No./Mail Date4.    Examiner's Comment Regarding Requirement for Deposit of Biological Material   | 8. 🛛 Examiner's Stateme   | ent of Reasons for Allowance  |
|  | 9. 🔲 Other  |   |
| /Sharad Rampuria/  |   |   |
| Primary Examiner, Art Unit 2617  |   |   |
|  |   |   |

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### **DETAILED ACTION**

### Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with ELCHUK, MARK (Reg. No. 33686) on 6/11/09.

The claims have been amended as follows:

Claims 5, 14 are cancelled.

1. (Currently Amended) A method of geo-casting a message to a plurality of recipients each having an address and a known geographic location, comprising: reporting the current locations and addresses of the plurality of recipients to a geospatial database; designating an arbitrary geographic region to transmit the message to by

reference to a physical structure within the geographic region; determining the addresses of the recipients that are located within the geographic region by using the geospatial database to compare the current reported locations of the recipients with the reference to the structure, the address of at least one of the recipients being a wide area network—an internet protocol (IP) address;

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changing the wide area network address of the recipient to dynamically obtain a new wide area network-IP address due to movement of the recipient; and transmitting the message to the addresses of each of the recipients having current locations within the geographic region by serially unicasting the message, over a mobile ad hoc network.

operating a computer at an OSI application level.

12. (Currently Amended) A telecommunication system comprising:

a mobile ad hoc network;

a transmitter connected to the network;

a memory containing a geospatial database and in communication with the transmitter;

a plurality of receivers including at least one mobile receiver, each of the plurality of receivers including a current address and a location in a geographic area and reporting the current address and the location to the geospatial database on a selected frequency; and

the transmitter enables reception of a message and a geographic destination designator that designates a geographic destination for the message, and further enables access to the geospatial database to identify the addresses of the receivers in the geographic destination to transmit the message to the identified receivers within that geographic destination based on the reported address for each said identified receiver, the geographic destination comprising a geographic region arbitrarily defined by

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reference to one or more physical structures within the geographic region, the transmitter enabling transmission of the message as a series of unicast messages to the identified receivers.

operating a computer at an OSI application level.

- 22. (Currently Amended) A telecommunication system comprising:
- a mobile ad hoc network;
- a transmitter connected to the network;
- a memory containing a geospatial database and in communication with the transmitter;
- a plurality of receivers including at least one mobile receiver, each of the plurality of receivers including an address and a location within a geographic area and reporting the current address and the location of the mobile receiver to the geospatial database, at least one of the addresses being a wide area network address which changes; and the transmitter enabling operation at an OSI application level to receive a message and a geographic destination designator that designates an arbitrarily defined geographic destination for the message, the geographic destination defined by at least one physical structure in the geographic destination and that enables access to the geospatial database to identify the addresses of the receivers currently reported to be in the geographic destination, to transmit the message to the identified receivers within the geographic destination based on their reported current address, and that enables

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database;

transmission of the message as a series of unicast messages to the identified receivers within the geographic destination.

operating a computer at an OSI application level.

23. (Currently Amended) A method of geo-casting a message to a plurality of recipients each having an address and a known geographic location comprising: reporting the current location and address of the recipients to a geospatial

transmitting a message to at least one selected recipient based on their geographic location by:

- (1) arbitrarily designating a geographic region for receipt of the message by reference to a plurality of physical structures in the geographic region;
- (2) determining the recipients that are within the geographic region by comparing the current reported locations of the recipients to the geographic region; and
- (3) serially unicasting the message to the addresses of the recipients that are located within the geographic region over a mobile ad hoc network.

  operating a computer at an OSI application level.

### Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Claims 5-6, 8, 14-15, are cancelled.

Page 6

Claims 1-4, 7, 9-13, 16-23 (renumbered as 1-18 respectively) are patentable.

The entire prior-art combination **disclosed** (in previous office-action of this case) fails to anticipate or render the claimed limitations in combination with all the recited limitations of the disclosed independent claims obvious (**viewed the entire claim as a whole**), over any of the prior art of record, alone or in combination.

Consequently, the disclosed independent claims are allowed on behalf of above-discussed reasons, and also preserved via Applicants arguments and remarks filed on 01/26/2009 as well. Since the disclosed dependent claims are dependent on one of the above independent claims, therefore they are also patentable.

### Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharad Rampuria whose telephone number is (571) 272-7870. The examiner can normally be reached on M-F. (8:30-5 EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost can be reached on (571) 272-7023. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000 or EBC@uspto.gov.

/Sharad Rampuria/ Primary Examiner Art Unit 2617